SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: ZENECA LIMITED

(ii) TITLE OF INVENTION: GENE SILENCING

(iii) NUMBER OF SEQUENCES: 3

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: IP DEPT., ZENECA AGROCHEMICALS

(B) STREET: JEALOTTS HILL RESEARCH STATION,

(C) CITY: BRACKNELL,

(D) STATE: BERKSHIRE

(F) ZIP: RG42 6ET

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS

(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US/10/085,418

(B) FILING DATE: 28-FEB-2002

(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: HUSKISSON, FRANK M

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 01344 414822

(A) LENGTH: 3681 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: 1-AMINO CYCLOPROPANE-1-CARBOXYLIC ACID

OXIDASE

(vii) IMMEDIATE SOURCE:

(B) CLONE: pTOM13

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

AAATTTGATA GATTCAGTTT TTATGTTTTT AGTGCTGATT ACAACATTGA AATTCTAAAT
60

TTAGAATTTA ATATTTATTA AATGTTAGTG CATTTATACA AATAACATAT TACATCTCAA
120

ATAATATTGA GTTTGTTAGA TTTTATTTGC CCTGATTTCT TATCATAAAT AGGTTTTCCT
180

TTTAGGAAAA GGTTTTGAAT TGACTATTCT TTTTTTGGTA GGAAAAAGTT TAGGACTCTA
240

TAAATAGAGG CATGTTCCTT CTAACTTAAT TAGCATTCAC AATGTAGTTT TAAGGGCTTT
300

GAGAGTTTTG GTTAGAGGGA GAATTTGTGA ACCTCTCATG TATTCCGAGT GAATTGGTTG
360

AGGTTGTTTC CCTCTGTATT TTGTACTCTC ATGTTTATAG TGGATTGCTC ATTTCCTTTG
420

TGGACGTAGG TCGATTGACC GAACCACGTT AAATTTTTGT GTCTTTTGGT ATATTTCCTG
480

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ATTTTCGGTC CTAACAAGTG GTATCAGAGC CAGATTCAAT AATGGAGTCA GGTGTAGTGG
600

TTCGATAATC GATGATTGAA CCAAGTTAGA AAGAGGTGTT CATCTTGACG GGTGTAGTTC
660

TAGCCGCAAC CTTTTTGACA GTAATGAAGA TTTTGATGGA GAAATTGTTT CAGAGAGGTT
720

CTCTGTGTTG AGACATAAAT TTTGTAAAGG AGATTATGGA GAGGAGAAGC AAGTTGTTGA
780

AGATTAAGTA AAGAAGGTGG ACAAATCTAT TTTGTCAGAA ATTCAGGCCA AGGGGGAGAT
840

TTGTTGGGTT TTATTTGCCC TGATTTTTTA CCATAAATAG GTTTTCCTTT AAGGAAAAGG
900

TTTTGAATTG ACTATTCTTT TTTTGGTAGG AAAAGGTTTA GGATTCTATA AATAGAGGCA
960

TGTTCCTTCT AACTTAATTA GCATTCACAA TGTAGTTTTA AGGGCTTTGA GAGTTTTGGT
1020

TAGAGGGAGA ATTTGTGAAC CTCTCATGTA TTCCGAGTGA ATTGGTTGAG GTTGTTTCCC
1080

TCTGTATTTT GTACTCTCAT GTTTATAGTG GATTGCTCAT TTCCTTTGTG GACGTAGGTC
1140

GATTGACCGA ACCACGTTAA ATCTTTGTGT CTTTTGGTAT ATTTCTCGTT GTCTTCTTAC
1200

TCGTGGTCTT TCGAGGTTTG CTTTGCTAGC TTCCGCGTTT ACACCTGCTT ATTTGCGGTC
1260

CTAACAGAGT TCGATGGGTT GAATCTATAA AAAGAAAAAT ATACTCGTGA TTCACGATTA
1320

TTTATATGAA AATATAATAA ATATTGAATT TCCTTTGCTA TTTCTTATGT TTACGTCTTT
1380

ATATTTCAAA TTATTCCACC AATACTGACA AGCCCTAGGC CATCTCTAGG AAATTCATAC
1440

AATTTTTTTT TTGTTGTTAA CTAGTTAAAT TGGCAGCCTT AAAGATTATT GTAAAATTCA
1500

AGGCAACTTC CTCAAGTACT ACAACTACAT TGTAACATCC CAGTCAAAGT GTCCTAAAAT
1560
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GCCCATAAGC CATCATGTAT TATAGTCAAA ATGGGTCCTT TTCCAATTTG TCTTGATCCC
1680

AAAATCCCTT TGTAGGTAAG ATGGTTCAAC AAGGAACTAT GACTCTTAAG GTAGACTTGG
1740

ACTCATAGAC TTGTCATAAC TCATAAAGAC TTGGAATATA ATAATTATTC ATTTAAATTA
1800

TAATTCTCTA CTTTAATATC TTCTACTATA AATACCCTTT CAAAGCCTCA TTATTTGTAC
1860

ATCAAACATT GATATTCATC TCTTCAATCT TTTGTATTCA CATATTCTAT TTATTCAATA
1920

CACTTAGGAA AACACTTTAC CAAGAAATTA AGATGGAGAA CTTCCCAATT ATTAACTTGG
1980

AAAAGCTCAA TGGAGATGAG AGAGCCAACA CCATGGAAAT GATCAAAGAT GCTTGTGAGA
2040

ATTGGGGCTT CTTTGAGGTA ATCATAAATT ACATAAACAT ATTAATATGT TTGTTTCAAT
2100

TTATCAGTCA TACTTTTCTC TGTTTTAAAA TTAATGTCAC TTTCAATATT TAATAATTCG
2160

CATGACATGT TTATAACACA ACAAGATATA GGTTACATTT TGATACATTA TATATAACTT
2220

CTGTCACACG ACTCAAAAGT CTTTCTTAAT TTCTTGAATT CAATGATCGA TCAAACTAAG
2280

ACACGTAAAA TGAAACGGGG AATAGTAATT CTGTTTGCTT ATGTGATCAT TGTAGTTGGT
2340

GAACCATGGA ATTCCACATG AAGTAATGGA CACAGTAGAG AAAATGACAA AGGGACATTA
2400

CAAGAAGTGC ATGGAACAGA GGTTTAAGGA ACTAGTGGCA AGTAAGGGAC TTGAGGCTGT
2460

TCAAGCTGAG GTTACTGATT TAGATTGGGA AAGCACTTTC TTCTTGCGCC ATCTTCCTAC
2520

TTCTAATATC TCTCAAGTAC CCGATCTTGA CGAAGAATAC AGGTACATAC ATGTGTCCTA
2580

CATATTGCGT ATATAATAAA TAAACACAAA ATTTAAGTTA TATACGCTGA CAGTATAACT
2640
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AGAAATTGGC TGAGGAGTTA CTTGACTTAC TCTGTGAAAA TCTTGGACTT GAAAAAGGTT
2760

ACTTGAAAAA TGCCTTTTAT GGATCAAAAG GTCCCAACTT TGGTACTAAA GTTAGCAACT
2820

ATCCACCATG TCCTAAGCCC GATTTGATCA AGGGACTCCG CGCTCATACA GACGCAGGAG
2880

GCATCATACT TCTGTTCCAA GATGACAAAG TGAGTGGCCT TCAACTCCTC AAAGACGAGC
2940

AATGGATCGA TGTTCCTCCC ATGCGCCACT CTATTGTGGT TAACCTTGGT GACCAACTTG
3000

AGGTACAAGA TTCACTAAGT GTGTGTGTTT TTATCACTAT AACTTAGAAG TAGTAACTAA
3060

AAATGGTATT AATGAAATGT TATAAAAACA GGTGATCACT AACGGGAAGT ACAAGAGTGT
3120

GCTGCACAGA GTAATTGCAC AAACAGACGG GACACGAATG TCATTAGCCT CATTTTACAA
3180

TCCAGGAAGT GATGCAGTAA TATATCCAGC AAAAACTTTG GTTGAAAAAG AGGCAGAGGA
3240

AAGTACACAA GTGTATCCAA AGTTTGTGTT TGATGATTAC ATGAAGTTAT ATGCTGGACT
3300

CAAGTTTCAA GCCAAAGAGC CAAGATTTGA AGCAATGAAG GCAATGGAAA GTGATCCAAT
3360

TGCAAGTGCT TAGATCCCAA TTCAATTAAA AAAATTGGTG TTTGAAAAT ATATTTAAAT
3420

ATAGCAATCT ATGTATACAC ATTATTTGCT CTTCTTATGT ATGGTAGAAT AAAGTTAGTA
3480

TTAAAAAAGA TTGTGATTTG CTGCATATGT ATCAAAAGA GTCCTAATAT TTGTATCTAT
3540

AAATAAGGTG CCTTCTAGTG AAATTATACA AATAATAATT TGGAGTGTAT TGTTCTTTCT
3600

CATGTAATTT AACTTTTAAG TATCTTACTT TACAATATAC TGTTCACTTA TTGAACATAT
3660

TGAGTGATAT ATTGACTCAA T 3681

(2) INFORMATION FOR SEQ ID NO:2:

5

(A) LENGTH: 22 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

(B) CLONE: oligo dT-primed cDNA - page 13

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

CATTCATCTC TTCAATCTTT TG 22

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 26 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

(B) CLONE: oligo dT-primed cDNA (SEQ3) page 13

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CTTAATTTCT TGGTAAAGTG TTTTCC 26